

# INSTRUMENTATION

OVERALL SCREENED / APL ARMoured DEKABON

## Construction

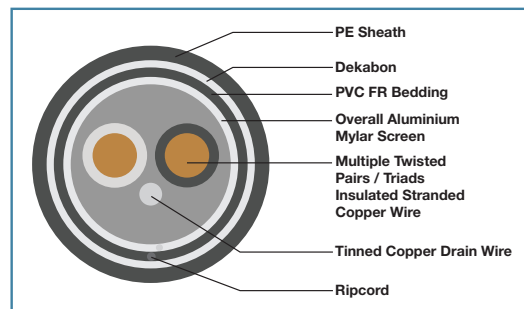
Overall screened with specially selected lay schemes in order to counter static and cross talk noises. A "clean" and accurate signal can therefore be expected to be transferred. APL Armouring is provided for increased mechanical protection. The APL/PE Sheath provides an excellent moisture barrier.

## Applications

For interconnections between instruments, sensors and monitors.

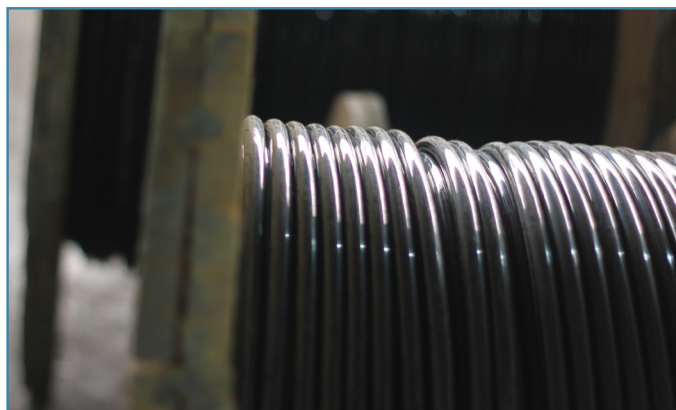
## Packaging

Available in 500 and 1000 metre drums.  
Cut lengths available on request.



## Specification

Conductors	Plain annealed class 4 bunched copper
Insulation	Crosslink polyethylene - Temperature rating 105°C
Identification	White Cores, Black numbered Pairs - Black and White numbered cores Triads - Black, Red and White numbered cores
Average Lay Length	63mm
Individual Screening	Aluminium/Polyester tape with a 0.5mm <sup>2</sup> tinned copper drainwire. All individual screens are sealed
Overall Screening	Aluminium/Polyester tape with a 0.5mm <sup>2</sup> bunched tinned copper drainwire
Bedding Sheath	Flame retardant PVC - Temperature rating 90°C
Armouring	0.3mm Aluminium Polyethylene Laminated (APL) with 0.5mm <sup>2</sup> bunched tinned copper drainwire
Outer Sheath	Polyethylene (PE)



## Electrical Parameters

Rated insulation voltage	300/500V		
	0.5mm <sup>2</sup>	1.0mm <sup>2</sup>	1.5mm <sup>2</sup>
Max. conductor resistance @ 20°C Ω/km:	39.0	19.5	13.3
Nominal mutual capacitance nF/km:	100	120	120
Nominal ground capacitance nF/km:	200	240	240
Nominal inductance mH/km:	0.68	0.64	0.61

## Electrical Characteristics

Size mm <sup>2</sup>	Capacitance	Capacitance		Maximum Resistance Ω/km		Nominal Inductance mH/km
		Nominal pF/m	Max pF/m	Single Pair/Triad & Multicore	Multi-Pair Triad	
0.5	Core / Core Screened	84	90	39.0	39.6	0.707
0.5	Core / Screen	158	169	39.0	39.6	0.707
0.5	Core / Core No Screen	53	56	39.0	39.6	0.707
0.5	Core / Screen OS only	100	106	39.0	39.6	0.707
1.0	Core / Core Screened	104	112	19.5	19.8	0.629
1.0	Core / Screen	196	210	19.5	19.8	0.629
1.0	Core / Core No Screen	63	66	19.5	19.8	0.629
1.0	Core / Screen OS only	119	124	19.5	19.8	0.629
1.5	Core / Core Screened	101	121	13.3	13.5	0.645
1.5	Core / Screen	190	228	13.3	13.5	0.645
1.5	Core / Core No Screen	61	70	13.3	13.5	0.645
1.5	Core / Screen OS only	115	131	13.3	13.5	0.645

# INSTRUMENTATION

OVERALL SCREENED / APL ARMoured DEKABON

## Physical Parameters (Standard Sizes)

Product Code	Size mm <sup>2</sup>	No. of Pairs/Triads	Nominal OD mm	Min. Bending Radius mm	Gland Size	Nett Mass kg/km	Std Drum Length m	Gross Drum Mass kg
<b>PAIRS</b>								
AP005001	0.5	1	9.4	85	0	90	1000	155
AP005002	0.5	2	12.7	115	1	153	1000	228
AP005004	0.5	4	14.4	130	1	203	1000	290
AP005008	0.5	8	17.1	155	2	287	1000	449
AP005012	0.5	12	20.0	181	2	384	500	284
AP005016	0.5	16	21.7	195	3	471	500	398
AP005024	0.5	24	24.5	221	3	629	500	477
AP010001	1.0	1	10.2	92	0	111	1000	186
AP010002	1.0	2	14.6	132	2	205	1000	292
AP010004	1.0	4	16.2	146	2	265	1000	427
AP010008	1.0	8	20.3	183	2	428	1000	590
AP010012	1.0	12	22.9	206	3	557	500	441
AP010016	1.0	16	25.3	228	3	706	500	499
AP010024	1.0	24	28.6	258	4	949	300	447
AP015001	1.5	1	11.0	100	0	128	1000	203
AP015002	1.5	2	16.2	146	2	248	1000	410
AP015004	1.5	4	18.4	166	2	354	1000	500
AP015008	1.5	8	22.8	206	2	535	500	430
AP015012	1.5	12	26.3	237	3	730	500	511
AP015016	1.5	16	29.4	265	4	943	300	445
AP015024	1.5	24	33.0	297	4	1256	300	539
<b>TRIADS</b>								
AT005001	0.5	1	9.7	88	0	100	1000	165
AT005004	0.5	4	15.6	141	2	244	1000	331
AT005008	0.5	8	19.8	179	2	392	1000	538
AT005012	0.5	12	23.0	207	3	512	500	418
AT005016	0.5	16	25.4	229	3	646	500	469
AT005024	0.5	24	31.1	280	4	919	300	438
AT010001	1.0	1	10.5	95	0	126	1000	201
AT010004	1.0	4	18.4	166	2	357	1000	503
AT010008	1.0	8	22.5	204	3	554	500	439
AT010012	1.0	12	26.7	242	4	773	500	533
AT010016	1.0	16	30.0	270	4	990	300	459
AT015001	1.5	1	11.4	103	1	148	1000	223
AT015004	1.5	4	20.6	186	3	442	1000	588
AT015008	1.5	8	26.0	234	3	726	500	509
AT015012	1.5	12	31.4	283	4	1036	300	473

\* Multiple triads available on request.